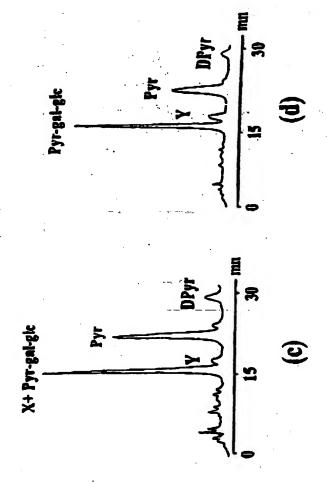


FIG. 1



N DPyr 0 15 38

FIG. 3

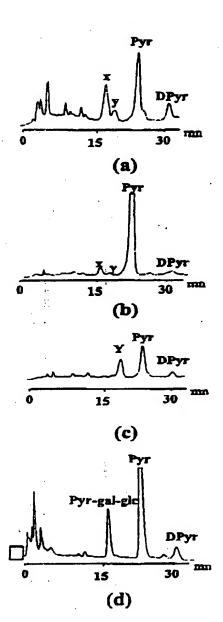


FIG. 4

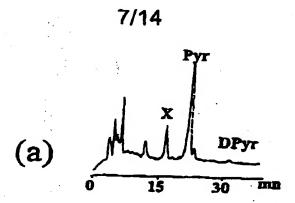
Tissue: 2 - Synovial 1 105% Cartilage 1 6%	5 hours 10 hours	15 hours	20 hours
ial 1 2 2 2 2 2 3 2 4 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
2 1 2 1 6	ı	•	
. 2	1	ı	
, 11 2	% 84%	54%	37%
	%95	64%	24%
796	2%	1%	1%
0/4	2%	2%	1%

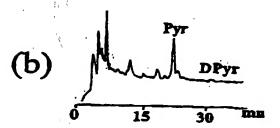
20 hours

Hydrolysis time	time	5 hours	10 hours	15 hours
Tissue:				
Bone	-	. %95	33%	78%
•	2	25%	44%	34%
Synovial	1	16%	12%	12%
	7	%6	10%	%6
Cartilage	1		•	•
	7			

29% 12% 9%

24%





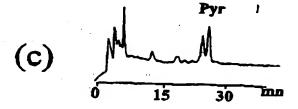
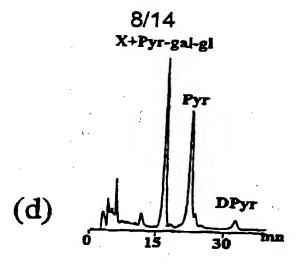
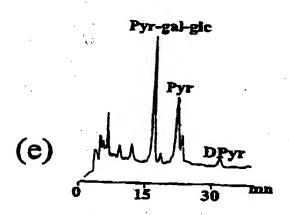
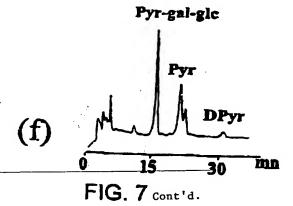


FIG. 7.







			5)/	14	
(umole/umole Cr)	CressLaps	126 ± 27	281 ± 100	203 ± 106	266 ± 187*	834 ± 352°
пајоша)	CartiLaps	6.1 ± 0.9	7.5±2.8	6.9 ± 2,2	12.4 ± 8.5*	7.2 ± 2.9
	D-Pyr Pyr-Gal-Gle CartiLaps CrossLaps	4.5 ± 1.0	4.8 ± 1.7	4.7 ± 1.4	9.6±5.9°	6'1 = 1'9
/emole Cr)	D-Pyr	3,3 ± 0.9	37±0.9	14.5 ± 3.4 3.5 ± 0.9	4.0 ± 2.3*	10,2 ± 5,1*
Total Pyr (nmole/nmole Cr) Free Pyr (nmole/amole Cr)	Ä	13.4±2.7	15.6±3.7	14.5 ± 3.4	26.3 ± 15.0°	125.8 ± 53.6" 31.2 ± 13.5" 42.1 ± 15.4" 10.2 ± 5.1" 6,1 ± 1.9
le/nmole Cr)	d-Pyr	5.9 ± 1.4	7,6±2.6	6.7 ± 2.2	19.8 ± 7.6" 26.3 ± 15.0"	31.2 ± 13.5*
Total Pyr (nmc	Pyr	28.5 ± 4.1	55.3±2.4 34.8±9.5 -> 7.6±2.6	45.5 ± 10.3 31.6 ± 7.9 6.7 ± 2.2	36.2 ± 11.9 4 72.2 ± 51.8 4	125.8 ± 53.6"
·	Age	35.7 ± 2.8	55.3 ± 2.4	45.5 ± 10.3	56.2 ± 11.9^	
• •	-	92	2	40	77	01
	Subjects.	Pre-menopausal women	Post-menopausi women	Controls	Rheomatold arthritis	Paget's disease

* Statistical significance (Anova) p < 0.05 of the difference compared with control group.

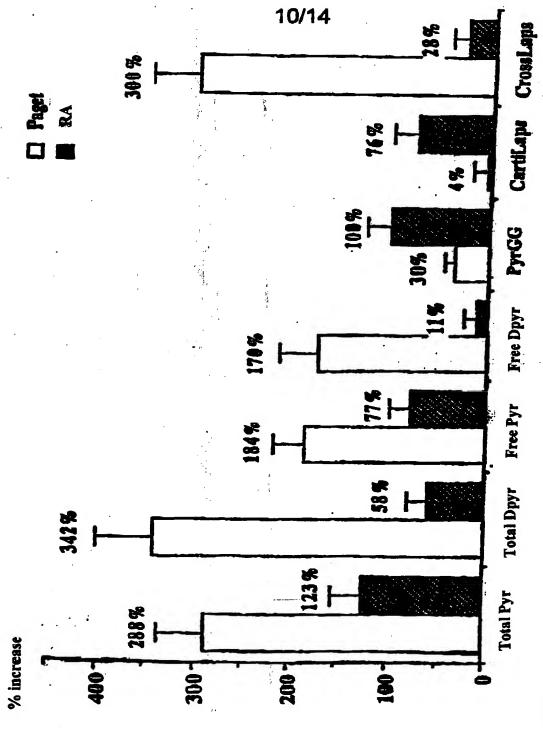


FIG. 9

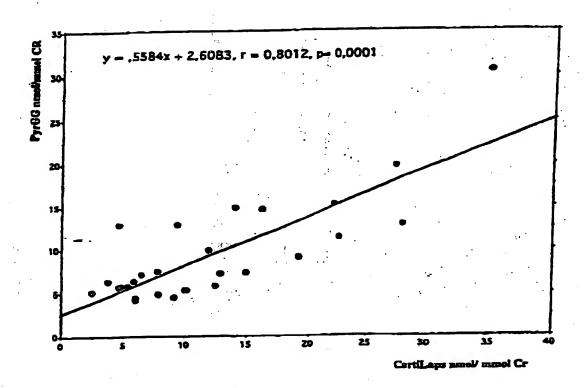


FIG. 10

	ជ	Pyr-Gal-Glc	CartiLaps
		(nmole/mmole Cr)	(nmole/mmole Cr)
Controls	40	4.7 ± 1.4	6.9 ± 2.2
Rheumatoid arthritis (RA)	27	9.6 ± 5.9*	12.4 ± 8.5*
Destructive RA	12	12.2 ± 7.4*	16.5 ± 10.0*
Non destructive RA	15	7.5 ± 3.2*	9.2 ± 5.4**
* Statistical significance (T-test) p < 0.001	st) p < 0.001	** Statistical signification	** Statistical significance (T-Test) p < 0.05

* Statistical significance (T-test) p < 0.001

Tiblo-semoral	-0.50*	
Womac	0.50*	
Lequesne	0.42*	
	Pyr-Gal-Glc	* p < 0.01

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	Narrowing	Narrowing of joint line	Bone erosion	roston	Total score	score
Progression	YES (n=27)	NO (n=84)	YES (n=41)	NO (n=70)	YES (n=54)	NO (u=57)
Urinary Pyr-Gal-Gle (nmole/nmole creatinine)	8 .3	7.2	9.34	6.5	***	6.3

Statistical significance of difference compared with group with no progress * p=0.03; **p=0.05